



Public Schools of North Carolina



NC Race to the Top (RttT) Information Technology (IT) Initiatives

Legislative Information Technology Subcommittee

November 3, 2011

Objectives/Agenda

1. Provide Overview of RttT IT Initiatives
 - Goals
 - Projects
2. Focus on Identity Access & Management (IAM)
3. Address Committee Questions

Goals of RttT IT Initiatives

1. Support/Enhance Instruction (Student Achievement)
2. Support/Enhance Teachers' Professional Development
3. Increase performance, reliability, and cost-effectiveness of local IT infrastructure

One-time funding = Infrastructure

RttT Technology Initiatives

State Plan

Instructional Improvement System \$24M
New NC Virtual Public School Courses \$6M

Local Plans

LEA Network \$48.5M User Devices \$25.5M

State Plan

Learning Management \$10.8M
Learning Objects Repository \$1.7M
Web Collaboration Tools \$4.4M
Identity Management \$1.2M
Shared Infrastructure \$11.2M

“NC Ed
Cloud”



Instructional Improvement System (IIS)

- See documents at:

www.ncpublicschools.org/docs/acre/improvement/resources/

NC Education Cloud (NCEdCloud)

- See “Blueprint” approved recently by the State Board of Education:

http://cloud.fi.ncsu.edu/resources/NCEdCloud_Work_Plan.pdf

Five NCEdCloud Strategies

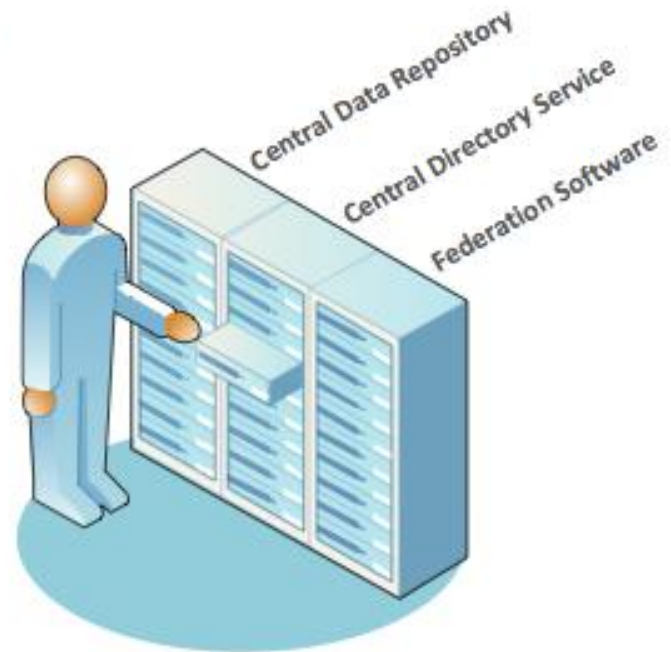
1. Transition LEA infrastructure to a cloud-centric IT Enterprise service model
2. Deploy an NC shared learning infrastructure
3. Modernize statewide business operations systems opportunistically
4. Form a dedicated NCEdCloud support organization and support network
5. Initiate a digital inclusion model to address anywhere any time access to the Shared Learning Infrastructure platform



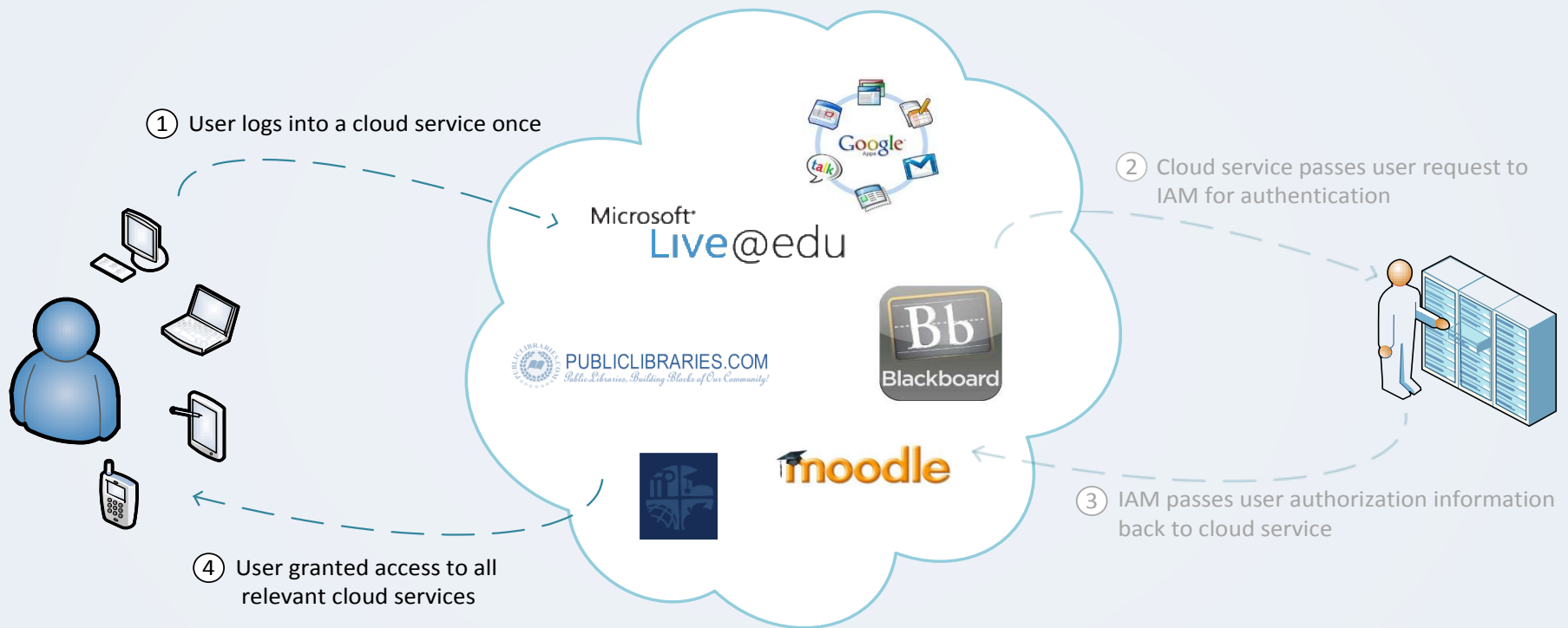
Identity and Access Management

Identity and Access Management (IAM) System has 3 Major Components

- 1 Central Data Repository**
The central repository will be comprised of relevant user data from various authoritative data sources
- 2 Central Directory Service**
The central directory will contain all user IDs, passwords, and other identity information. It will serve as master authentication and authorization point for all cloud-based services and allow syncing to LEAs
- 3 Federation Software**
The federation software security extends identity information to cloud-based services providing end users with single sign on experience



Identity and Access Management (2)



Summary

1. Overview of RttT IT Initiatives

- Goals
- Projects

2. Identity Access & Management (IAM)

3. Committee Questions